DART AEROSPACE LTD	Work Order:	15347
Description: Crosstube Extrusion (OH-58)	Part Number:	D6005-128
Drawing: D6005 Rev. A	Qty:	23

Step	Location	Procedure	Ву	Date	qty
1	EXPEDITING	Open W/O	Sm	01.10.05	23
2	PURCHASING	Issue P/O: 2003/76 a) Extrude as per Dwg D6005 b) Material: 7075-T6/T6511 (WW-T-700/7 OR QQ-A-225/9 OR QQ-A-200/11) seamless aluminum tube c) Minimum ultimate tensile strength = 77 ksi d) Minimum tensile yield strength = 66 ksi g) Material certification required	σ	Ol was	23
3	RECEIVING	Receive and Inspect for transit damage Ensure Material certification is attached	RK	0110.05	23
4	QC	Inspect Level 6 Ensure Ensure Material certification comply to Dwg D6005	0	01.10.12	
5	FINISHING	Chemical conversion coat as per QSI 005 4.1		01.10.16	
6	STORES	Identify and Stock	MB	01-10.18	23
7.	EXPEDITING	Close W/O Cost / part 3/1.// Sur o///o//9 (23)	B	01.10.19	
		403.11			

 Rev
 Date
 Change
 Revised By
 Approved

 A
 00.11.21
 New Issue
 EC

 B
 00.12.06
 Added: Issue P/O
 EC

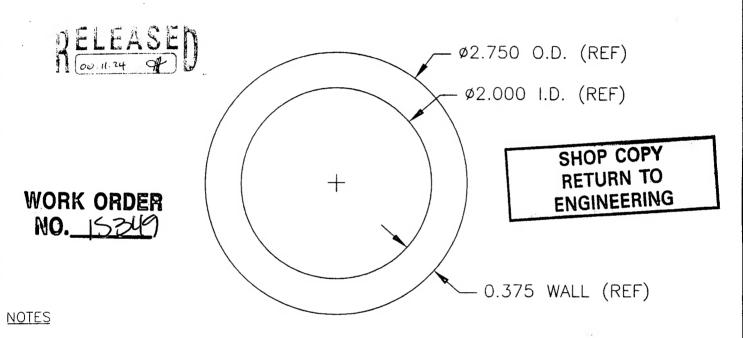
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DESIG	r	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECH	KED	APPROVED	DRAWING NO. REV.	A.
۷	H		D6005 SHEET 1 OF	1
DATE			TITLE SCAL	LE.
00.1	1.17		CROSSTUBE MATERIAL	1:1
Α		00.11.17	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



1) D6005-XXX CROSSTUBE LENGTH

> WHERE XXX IS LENGTH IN INCHES EG. 128" LONG TUBE: D6005-128

CONTROLLED COPY

2) MATERIAL: 2.750 OD x 0.375 WALL 7075-T6/T6511 (WW-T-700/7 OR QQ-A-225/9 OR

QQ-A-200/11) SEAMLESS ALUMINUM TUBE. MINIMUM ULTIMATE TENSILE STRENGTH = 77 ksi MINIMUM YIELD TENSILE STRENGTH = 66 ksi

3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:

O.D.: ± 0.006 MEAN (±0.012 INCLUDING OVALITY)

WALL: ±0.015 MEAN (±0.038 INCLUDING ECCENTRICITY)

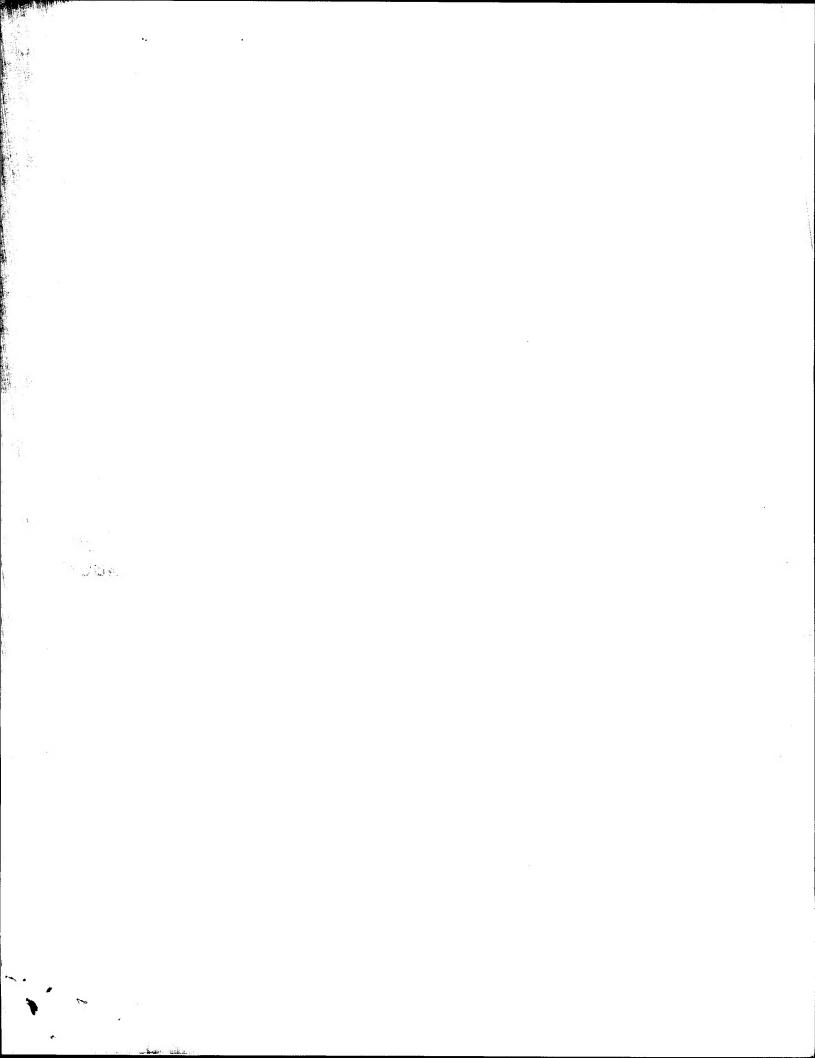
XXX + 0.125/-0.000

STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH
4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Oct 05, 2001

11:09 am

Department Code:

Work Order No : 0015349

Project Name : D6005-128 Project For : WK41

Burden Flags : NNNNNNN Work Order Type : Main WO Status : Open

Invoice State
Invoice Date :
Invoice Number :
Invoice Amount : 0.00 Main WO Number Invoice State : Not Invoiced

House Part Number : D6005-128

Description : Crosstube material

Manufactured : Yes

23 Amount Req'd: 0

Amount Done : Order Entry No : OE Value : Start Date! OE Value : 0.00

Est Finish Date : 10-12-01 Act Finish Date :

Est Margin : 0.000% Drawings Reqd : No Actual Margin : 0.000% Ok for Approval :

Approval Rec'd : \$0 Posted to Finished Goods

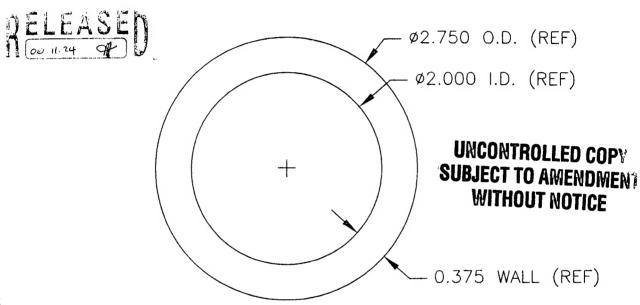
=======================================	===	Estimated	Actual	Var. %	Posted	To Post
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00	3.33	0.00
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		0.00
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
_		=======	=======	======		
Burden	:	0.00	0.00	0.00		
		========	=======	======		
Total Cost	:	0.00	0.00	0.00		
Margin	:	0.000	0.000			
Selling Cost	:	0.00	0.00			

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00



DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. A
At .	-	D6005 SHEET 1	OF 1
DATE	-	TITLE	SCALE.
00.11.17		CROSSTUBE MATERIAL	1:1
Α	00.11.17	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



NOTES

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WHERE XXX IS LENGTH IN INCHES EG. 128" LONG TUBE: D6005-128

CONTROLLED COPY

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WALL: ±0.015 MEAN (±0.038 INCLUDING ECCENTRICITY)

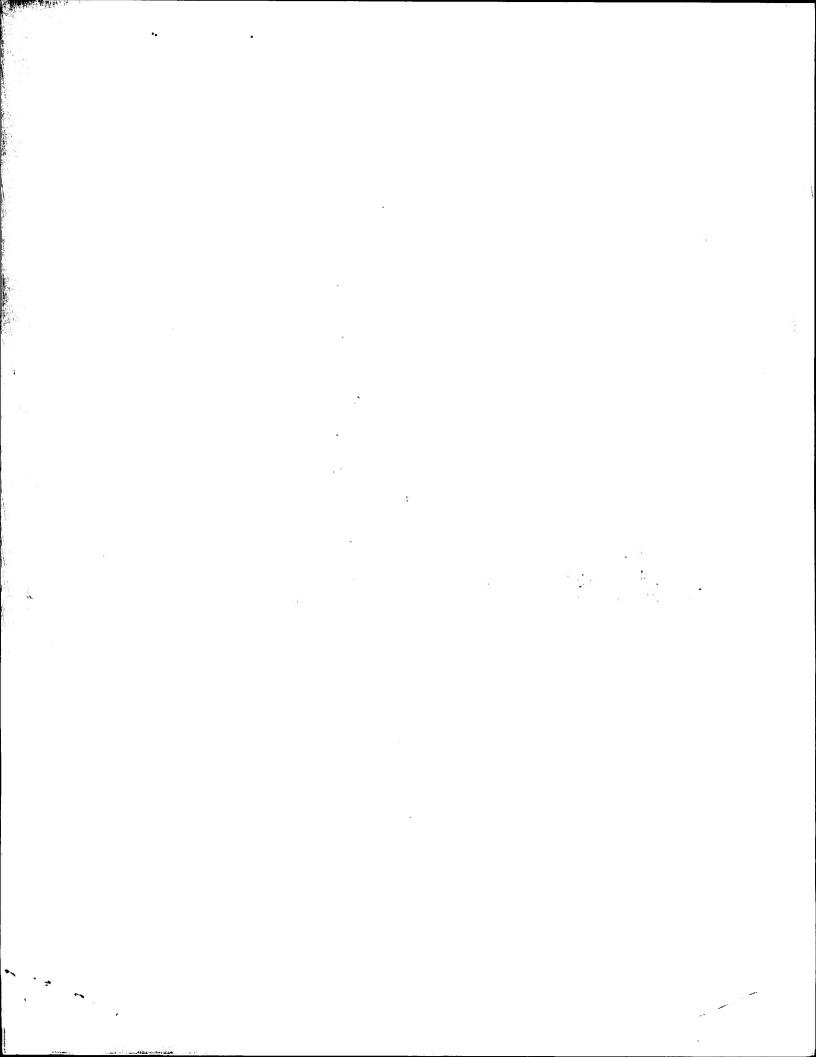
LENGTH:

LENGTH: XXX +0.125/-0.000 STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH

- 4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRAICHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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ALCOA EXTRUDED AEROSPACE PRODUCTS

Cust. P.O. No. / Gov't. Contract No.

2001648

Code No.

Alcoa No.

IC068041

Certified Inspection Report Product

We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that

Invoice Invoice No. Date

No. Alloy-Temper	Item Description		o. of Direction Limit	© Test T \$ Test T Y \$ Test L * Test C	Test R Test Y STEST R D
012 2.75 IN UU 128 IN LN SEAMLESS RO	275XW375	LOT- 83524 LOT- 83524 LOT- 83524 LOT- 87873 LOT- 87873 F	T6511 LONG. T6511 LONG. T6511 LONG. LONG.	79.5 71.4 15.3 79.8 72.1 12.8 82.0 71.8 16.0 80.9 70.4 15.7	
Chemical Composition S Max. 0 Alloy 7075 Min.	40 0.50 2.0 0.30	MG CR ZN 2.9 0.28 6.1 2.1 0.18 5.1	0.20	AL REMAINDER EA TO	OTHERS ACH 0.05 MAX TAL 0.15 MAX
Dat 2 0 0 1 0 9 28 No. 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I DART AEROSPEC N 1270 ABERDEEN V HAWKSBURY T ONTARIO O CANADA K6A 1K		H 12 P HA T ON	ART AEROSPACE LTD. 270 ABERDEEN STREET AWKEBURY NTARIO ANADA KGA 1K7	\$:

From LAFAYETTE, IN

PAGE

10 When 2 or more tests per lot are made, the highest and lowest values are reported for each property determined. Single tests are reported in minimim columns. 2 See test abbreviation explanation on back of this sheet

TEST ABBREVIATION EXPLANATION

CYS Compressive yield strength ① KSI

EC Electrical conductivity % IACS

Elongation % in 2 inch or 4D

FRT Fracture toughness ① KSI Vinch

NYR Notch yield ratio

UTS

TYS Tensile yield strength ① KSI

Ultimate tensile strength ① KSI

 \odot KSI Kips per square inch. One kip equals one thousand pounds. Mechanical property values show the range of all lots tested for this item to date.